## **IN THE CLAIMS**:

Please note that all claims currently pending and under consideration in the referenced application are shown below. Please enter these claims as amended. This listing of claims will replace all prior versions and listings of claims in the application.

## **Listing of Claims:**

(Original) A semiconductor device comprising:
the semiconductor device having an active surface, at least a portion of said active surface having a wetting agent layer thereon.

- 2. (Original) The semiconductor device according to claim 1, wherein said wetting agent layer includes silane.
- 3. (Original) The semiconductor device according to claim 1, wherein said wetting agent layer includes at least one layer.
- 4. (Original) The semiconductor device according to claim 1, wherein said wetting agent layer comprises one of glycidoxypropyltinethoxysilane and ethyltrimethoxysilane.
- 5. (Original) The semiconductor device according to claim 1, wherein said wetting agent layer reduces surface tension of said active surface.
- 6. (Original) A semiconductor assembly comprising:
  a semiconductor device having an active surface;
  a substrate having an upper surface; and
  a wetting agent layer provided on one of said active surface of said semiconductor device and said upper surface of said substrate.

- 7. (Original) The semiconductor assembly according to claim 6, wherein said wetting agent layer includes silane.
- 8. (Original) The semiconductor assembly according to claim 6, wherein said wetting agent layer includes at least one layer.
- 9. (Original) The semiconductor assembly according to claim 6, wherein said wetting agent layer comprises one of glycidoxypropyltinethoxysilane and ethyltrimethoxysilane.
- (Previously Amended) A semiconductor assembly comprising:
  a semiconductor device having an active surface;
  a substrate having an upper surface;
  a wetting agent located on a portion of one of said active surface of said semiconductor device
  and said upper surface of said substrate; and
  an underfill material located between said substrate and said semiconductor device.
- 11. (Original) The semiconductor assembly according to claim 10, wherein said wetting agent comprises silane.
- 12. (Original) The semiconductor assembly of claim 10, wherein said wetting agent comprises at least one layer.
- 13. (Original) The semiconductor assembly according to claim 11, wherein said silane comprises any one of glycidoxypropyltinethoxysilane and ethyltrimethoxysilane.
- 14. (Original) A semiconductor assembly comprising:a semiconductor device having an active surface having at least one bond pad thereon, another surface, a first end, a second end, a first lateral side and a second lateral side;

a substrate having an upper surface having at least one circuit thereon, a first side wall, a second side wall, a first lateral side wall and a second lateral side wall;

at least one bump connecting said at least one bond pad on said active surface of said semiconductor device to said at least one circuit on said upper surface of said substrate, said at least one bump forming a gap between said semiconductor device and said substrate;

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an underfill material provided between said substrate and said semiconductor device; and a wetting agent layer provided on at least a portion of one of said active surface of said semiconductor device and said upper surface of said substrate.

- 15. (Original) The semiconductor assembly according to claim 14, wherein said wetting agent layer comprises silane.
- 16. (Original) The semiconductor assembly according to claim 14, wherein said underfill material substantially fills said gap between said semiconductor device and said substrate.

#### 17-18. (Withdrawn)

- 19. (Original) The semiconductor assembly according to claim 14, wherein said wetting agent layer comprises one of glycidoxypropyltinethoxysilane and ethyltrimethoxysilane.
- 20. (Original) A semiconductor assembly comprising:
  a semiconductor device having an active surface;
  a substrate having an upper surface;
  an underfill material provided between said substrate and said semiconductor device; and
  a wetting agent layer provided on a portion of said active surface of said semiconductor device
  and a portion of said upper surface of said substrate.

- 21. (Original) The semiconductor assembly according to claim 20, wherein said wetting agent layer comprises at least one layer.
- 22. (Original) The semiconductor assembly according to claim 20, wherein said wetting agent layer comprises one of silane, glycidoxypropyltinethoxysilane and ethyltrimethoxysilane.

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23. (Original) A semiconductor assembly comprising:

a semiconductor device having an active surface having a plurality of bond pads thereon; a substrate having an upper surface having a plurality of circuits thereon;

a plurality of bumps connecting said plurality of bond pads on said active surface of said semiconductor device to said plurality of circuits on said upper surface of said substrate, said plurality of bumps forming a gap between said semiconductor device and said substrate:

an underfill material provided between said substrate and said semiconductor device; and a wetting agent layer provided on said active surface of said semiconductor device and on said upper surface of said substrate.

- 24. (Original) The semiconductor assembly according to claim 23, wherein said underfill material substantially fills said gap between said semiconductor device and said substrate.
  - 25. (Withdrawn)
- 26. (Original) A semiconductor die comprising: the semiconductor die having an active surface, at least a portion of said active surface having a wetting agent layer thereon.

- 27. (Original) The semiconductor die according to claim 26, wherein said wetting agent layer includes silane.
- 28. (Original) The semiconductor die according to claim 26, wherein said wetting agent layer includes at least one layer.
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- 29. (Original) The semiconductor die according to claim 26, wherein said wetting agent layer comprises one of glycidoxypropyltinethoxysilane and ethyltrimethoxysilane.
- 30. (Original) The semiconductor device according to claim 26, wherein said wetting agent layer reduces surface tension of said active surface.
- 31. (Original) A semiconductor assembly comprising:
  a semiconductor die having an active surface;
  a substrate having an upper surface; and
  a wetting agent layer provided on one of said active surface of said semiconductor die and said upper surface of said substrate.
- 32. (Original) The semiconductor assembly according to claim 31, wherein said wetting agent layer includes silane.
- 33. (Original) The semiconductor assembly according to claim 31, wherein said wetting agent layer includes at least one layer.
- 34. (Original) The semiconductor assembly according to claim 31, wherein said wetting agent layer comprises one of glycidoxypropyltinethoxysilane and ethyltrimethoxysilane.
- 35. (Original) A semiconductor assembly comprising: a semiconductor die having an active surface;

a substrate having an upper surface;

a wetting agent located on a portion of one of said active surface of said semiconductor die and said upper surface of said substrate; and

an underfill material located between said substrate and said semiconductor die.

- 36. (Original) The semiconductor assembly according to claim 35, wherein said wetting agent comprises silane.
- 37. (Original) The semiconductor assembly of claim 35, wherein said wetting agent comprises at least one layer.
- 38. (Original) The semiconductor assembly according to claim 36, wherein said silane comprises any one of glycidoxypropyltinethoxysilane and ethyltrimethoxysilane.
- 39. (Original) A semiconductor assembly comprising:
  a semiconductor die having an active surface having at least one bond pad thereon, another surface, a first end, a second end, a first lateral side and a second lateral side;
  a substrate having an upper surface having at least one circuit thereon, a first side wall, a second side wall, a first lateral side wall and a second lateral side wall;
  at least one bump connecting said at least one bond pad on said active surface of said semiconductor die to said at least one circuit on said upper surface of said substrate, said at least one bump forming a gap between said semiconductor die and said substrate;
  an underfill material provided between said substrate and said semiconductor die; and
  a wetting agent layer provided on at least a portion of one of said active surface of said semiconductor die and said upper surface of said substrate.
- 40. (Original) The semiconductor assembly according to claim 39, wherein said wetting agent layer comprises silane.

41. (Original) The semiconductor assembly according to claim 39, wherein said underfill material substantially fills said gap between said semiconductor die and said substrate.

### 42-43. (Withdrawn)

- 44. (Original) The semiconductor assembly according to claim 39, wherein said wetting agent layer comprises one of glycidoxypropyltinethoxysilane and ethyltrimethoxysilane.
- 45. (Original) A semiconductor assembly comprising:
  a semiconductor die having an active surface;
  a substrate having an upper surface;
  an underfill material provided between said substrate and said semiconductor die; and
  a wetting agent layer provided on a portion of said active surface of said semiconductor die and a
  portion of said upper surface of said substrate.
- 46. (Original) The semiconductor assembly according to claim 45, wherein said wetting agent layer comprises at least one layer.
- 47. (Original) The semiconductor assembly according to claim 45, wherein said wetting agent layer comprises one of silane, glycidoxypropyltinethoxysilane and ethyltrimethoxysilane.
- 48. (Original) A semiconductor assembly comprising:
  a semiconductor die having an active surface having a plurality of bond pads thereon;
  a substrate having an upper surface having a plurality of circuits thereon;
  a plurality of bumps connecting said plurality of bond pads on said active surface of said
  semiconductor die to said plurality of circuits on said upper surface of said substrate, said
  plurality of bumps forming a gap between said semiconductor die and said substrate;
  an underfill material provided between said substrate and said semiconductor die; and

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a wetting agent layer provided on said active surface of said semiconductor die and on said upper surface of said substrate.



- 49. (Original) The semiconductor assembly according to claim 48, wherein said underfill material substantially fills said gap between said semiconductor die and said substrate.
- 50. (Original) The semiconductor assembly according to claim 48, further comprising an aperture extending through said substrate.